



07-09-04

IFW

PATENT
ATTORNEY DOCKET NO. 01942-00019

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Eija Pirhonen, Loredana Moimas, and
Franz Weber

Serial No.: 10/796,777

Filed: March 9, 2004

Title: BONE GRAFTING MATERIAL, METHOD,
AND IMPLANT)
)
) Examiner:
)
) Art Unit: 1615
)
)
)
)
)Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

In regard to the above identified application, we are transmitting herewith the attached:

1. Information Disclosure Statement,
2. Form PTO-1449,
3. Copies of twenty-one (21) references, and
4. Return postcard.

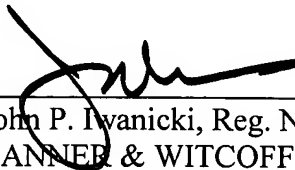
With respect to additional fees, no additional fee is required. The Commissioner is hereby authorized to charge any additional fees or credit overpayment to Deposit Account No. 19-0733.

Respectfully submitted,

Dated:

July 8, 2004

By


John P. Iwanicki, Reg. No. 34,628
BANNER & WITCOFF, LTD.
28 State Street, 28th Floor
Boston, MA 02109
(617) 720-9600

JUL 08 2004

INFORMATION DISCLOSURE CITATION

Sheet 1 of 1

Applicants: Eija Pirhonen et al.

Filing Date: March 9, 2004

Group: 1615

U.S. PATENT DOCUMENTS

Examiner Initial		Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
	AA	4,976,736	12/11/90	White et al.	623	16	04/28/89
	AB	5,108,436	04/28/92	Chu et al.	623	66	11/23/88
	AC	5,207,710	05/04/93	Chu et al.	623	16	01/10/92
	AD	5,468,544	11/21/95	Marcolongo et al.	428	224	11/15/93
	AE	5,861,176	01/19/99	Ducheyne et al.	424	486	12/24/96
	AF	5,871,777	02/16/99	Ducheyne et al.	424	486	05/02/97
	AG	5,874,109	02/23/99	Ducheyne et al.	424	486	09/04/97
	AH	6,054,400	04/25/00	Brink et al.	501	63	01/02/96
	AI	6,328,990	12/11/01	Ducheyne et al.	424	426	11/12/99
	AJ	6,632,412	10/14/03	Peltola et al.	423	338	12/01/99

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Class	Subclass	Translation	
							YES	NO
	AK	WO 86/04088	07/17/86	PCT				

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)

	AL	Gombotz et al., "Stimulation of bone healing by transforming growth factor-1 released from polymeric or ceramic implants," <i>J. App. Biomat.</i> , 5:141-150 (1994)
	AM	Kokubo et al., "Apatite Formation on Surfaces of Ceramics . . .," <i>Acta mater.</i> , 46,(7):2519-2527 (1998)
	AN	Peltola et al., "Effect of aging time of sol on structure and <i>in vitro</i> calcium phosphate formation of sol-gel-derived titania films," <i>J. Biomed. Mater. Res.</i> , 51(2):200-208 (2000)
	AO	Reddi, "Bone morphogenetic proteins: . . ." <i>Cytokine & Growth Factor Reviews</i> , 8:11-20 (1997)
	AP	Rose and Oreffo, "Bone tissue engineering: . . ." <i>Biochem. Biophys. Res. Com.</i> , 292:1-7 (2002)
	AQ	Santos et al., "Si-Ca-P xerogels and bone morphogenetic protein act synergistically on rat stromal marrow cell differentiation <i>in vitro</i> ," <i>J. Biomed. Mater. Res.</i> , 41(1):87-94 (1998)
	AR	Weber et al., "Slow and continuous application of human recombinant bone morphogenetic protein via biodegradable poly(lactide-co-glycolide) foamspheres," <i>Intl. J. Oral Maxillofac. Surg.</i> , 31:60-65 (2002)
	AS	Wei et al., "Hydroxyapatite-Zirconia Functionally Graded Bioceramics Prepared by Hot Isostatic Pressing," <i>Key Engineering Materials</i> , 240 to 242:591-594 (2003)
	AT	Wozney and Rosen, "Bone morphogenetic protein and bone morphogenetic protein gene family in bone formation and repair," <i>Clin. Orthop. Rel. Res.</i> , 346:26-37 (1998)
	AU	Wozney et al., "Novel regulators of bone formation: . . .," <i>Science</i> , 242:1528-1534 (1988)

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant. **Copies of references not provided at the time of this submission.



PATENT
ATTORNEY DOCKET NO. 01942-00019

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)	
)	
Eija Pirhonen, Loredana Moimas, and)	Examiner:
Franz Weber)	
)	
Serial No.: 10/796,777)	Art Unit: 1615
)	
Filed: March 9, 2004)	
)	
Title: BONE GRAFTING MATERIAL, METHOD,)	
AND IMPLANT)	

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

Pursuant to 37 C.F.R. §§ 1.97-1.99, Applicants hereby submit the enclosed PTO Form 1449. Copies of these references are enclosed. This Information Disclosure Statement is in compliance with the continuing duty of candor as set forth in 37 C.F.R. § 1.56 and is being filed before the mailing date of a first Office Action on the merits.

In the judgment of the undersigned, portions of the listed references may be material to the Examiner's consideration of the presently pending claims. However, the references have not been reviewed in sufficient detail to make any other representation and, in particular, no representation is intended as to the relative importance of any portion of the references. This

statement is not a representation that the listed references have effective dates early enough to be
"prior art" within the meaning of 35 U.S.C. § 102 or § 103.

Please apply any charges or credits to Deposit Account No. 19-0733.

Respectfully submitted,

Date:

July 8, 2004



John P. Iwanicki, Reg. No. 34,628
BANNER & WITCOFF, LTD.
28 State Street, 28th Floor
Boston, MA 02109
Telephone: (617) 720-9600